

SCORE Search Results Details for Application 09961086 and Search Result 20080917_142917_us-09-961-086a-1.rapbn.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
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This page gives you Search Results detail for the Application 09961086 and Search Result 20080917_142917_us-09-961-086a-1.rapbn.

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GenCore version 6.2.1
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OM protein - protein search, using sw model

Run on: September 18, 2008, 22:10:55 ; Search time 14 Seconds
(without alignments)
156.476 Million cell updates/sec

Title: US-09-961-086A-1
Perfect score: 3352
Sequence: 1 MSSSNVEVFIPVSQGNTNGF.....MIVIFLTIAYLKLFLKKYS 655

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 18219 seqs, 3344526 residues

Total number of hits satisfying chosen parameters: 18219

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA_New:*
1: /ABSS/Data/CRF/ptodata/1/pubpaa/US08_NEW_PUB.pep:*
2: /ABSS/Data/CRF/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
3: /ABSS/Data/CRF/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
4: /ABSS/Data/CRF/ptodata/1/pubpaa/US12_NEW_PUB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

%
Result Query

No.	Score	Match	Length	DB	ID	Description
1	227.5	6.8	294	3	US-11-524-363-3579	Sequence 3579, Ap
2	227.5	6.8	294	3	US-11-801-901A-3579	Sequence 3579, Ap
3	221.5	6.6	252	3	US-11-524-363-5117	Sequence 5117, Ap
4	221.5	6.6	252	3	US-11-801-901A-5117	Sequence 5117, Ap
5	221	6.6	233	3	US-11-524-363-2753	Sequence 2753, Ap
6	221	6.6	233	3	US-11-801-901A-2753	Sequence 2753, Ap
7	206.5	6.2	378	3	US-11-524-363-3524	Sequence 3524, Ap
8	206.5	6.2	378	3	US-11-801-901A-3524	Sequence 3524, Ap
9	204.5	6.1	209	3	US-11-524-363-3396	Sequence 3396, Ap
10	204.5	6.1	209	3	US-11-801-901A-3396	Sequence 3396, Ap
11	203.5	6.1	242	3	US-11-524-363-2985	Sequence 2985, Ap
12	203.5	6.1	242	3	US-11-801-901A-2985	Sequence 2985, Ap
13	203	6.1	336	3	US-11-524-363-3027	Sequence 3027, Ap
14	203	6.1	336	3	US-11-801-901A-3027	Sequence 3027, Ap
15	201.5	6.0	215	3	US-11-524-363-2846	Sequence 2846, Ap
16	201.5	6.0	215	3	US-11-801-901A-2846	Sequence 2846, Ap
17	199	5.9	353	3	US-11-524-363-4827	Sequence 4827, Ap
18	199	5.9	353	3	US-11-801-901A-4827	Sequence 4827, Ap
19	196.5	5.9	297	3	US-11-524-363-3131	Sequence 3131, Ap
20	196.5	5.9	297	3	US-11-801-901A-3131	Sequence 3131, Ap
21	195.5	5.8	244	3	US-11-524-363-2710	Sequence 2710, Ap
22	195.5	5.8	244	3	US-11-801-901A-2710	Sequence 2710, Ap
23	195	5.8	1325	3	US-11-596-106A-12	Sequence 12, Appl
24	192.5	5.7	623	3	US-11-524-363-3324	Sequence 3324, Ap
25	192.5	5.7	623	3	US-11-801-901A-3324	Sequence 3324, Ap
26	192	5.7	236	3	US-11-524-363-3215	Sequence 3215, Ap
27	192	5.7	236	3	US-11-801-901A-3215	Sequence 3215, Ap
28	191.5	5.7	213	3	US-11-524-363-3603	Sequence 3603, Ap
29	191.5	5.7	213	3	US-11-801-901A-3603	Sequence 3603, Ap
30	191	5.7	581	3	US-11-524-363-3011	Sequence 3011, Ap
31	191	5.7	581	3	US-11-801-901A-3011	Sequence 3011, Ap
32	190.5	5.7	246	3	US-11-524-363-4464	Sequence 4464, Ap
33	190.5	5.7	246	3	US-11-801-901A-4464	Sequence 4464, Ap
34	188.5	5.6	317	3	US-11-524-363-4111	Sequence 4111, Ap
35	188.5	5.6	317	3	US-11-801-901A-4111	Sequence 4111, Ap
36	188	5.6	511	3	US-11-524-363-2684	Sequence 2684, Ap
37	188	5.6	511	3	US-11-801-901A-2684	Sequence 2684, Ap
38	184.5	5.5	246	3	US-11-524-363-4567	Sequence 4567, Ap
39	184.5	5.5	246	3	US-11-801-901A-4567	Sequence 4567, Ap
40	182.5	5.4	461	3	US-11-524-363-2826	Sequence 2826, Ap
41	182.5	5.4	461	3	US-11-801-901A-2826	Sequence 2826, Ap
42	182	5.4	264	3	US-11-524-363-3729	Sequence 3729, Ap
43	182	5.4	264	3	US-11-801-901A-3729	Sequence 3729, Ap
44	181.5	5.4	213	3	US-11-524-363-4973	Sequence 4973, Ap
45	181.5	5.4	213	3	US-11-801-901A-4973	Sequence 4973, Ap

ALIGNMENTS

RESULT 1

US-11-524-363-3579

; Sequence 3579, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 3579
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-3579

Query Match 6.8%; Score 227.5; DB 3; Length 294;
Best Local Similarity 25.2%; Pred. No. 6.8e-11;
Matches 83; Conservative 54; Mismatches 105; Indels 87; Gaps 11;

Qy 56 RKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAP-R 113
:| :||| |: : | |::|| | ||::||| | | | | | |
Db 11 KLIKDKIELRNISFEINDGECVALIGPNGAGKTTLLDCLLG--DKLVTSGQVSIQGLPVT 68

Qy 114 PANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKV 173
: | :|::: | | : | : | :|:::| : |
Db 69 SSKLDYTRAYLPQENIIVQKLKVKELIAFFQRI-----YPNPLSNQEIDQLLQFVKQQK- 122

Qy 174 ADSKVGTTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLLKRM SK 233
| :||::: | : || | |::||| | :|| : : :
Db 123 -----EQLAEKLSGGQKRLFSFILTLIGRPKIVFLDEPTASMDTSTRQRFWEIVQELKA 176

Qy 234 QGRTIIFSIFQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADF 293
|| ||::| | : | : || | :
Db 177 QGVTIYSSHYIE-EVEHTADRILLNKGELI----- 207

Qy 294 FLDIINGDSTAVALNREEDFK-----ATEIIEPS-----KQDKPLIE----- 330
| :| :|: || | |::| | || :

Db 208 -----RDTTPLAMRSEEIEKHFILPIAYKEVVEQSNLVENWTLKQDSLQVVTREADAFW 261

Qy 331 -----KLAEIYVN-----SSFYKETK 346

Db 262 ELLAQAGCRMQEIEVNNRSLNTIFEETQ 290

RESULT 2

US-11-801-901A-3579

; Sequence 3579, Application US/11801901A

; Publication No. US20080194505A1

; GENERAL INFORMATION

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Houseweart, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687.1000-060

; CURRENT APPLICATION NUMBER: US/11/801,901A

; CURRENT FILING DATE: 2008-04-17

; PRIOR APPLICATION NUMBER: US 11/524,355

; PRIOR FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833

; PRIOR FILING DATE: 2003-08-14

; PRIOR APPLICATION NUMBER: US 09/583,110

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553

; PRIOR FILING DATE: 1997-07-02

; NUMBER OF SEQ ID NOS: 5326

; SEQ ID NO 3579

; LENGTH: 294

; TYPE: PRT

; ORGANISM: Streptococcus pneumoniae

US-11-801-901A-3579

Query Match 6.8%; Score 227.5; DB 3; Length 294;

Best Local Similarity 25.2%; Pred. No. 6.8e-11;

Matches 83; Conservative 54; Mismatches 105; Indels 87; Gaps 11;

Qy 56 RKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAP-R 113

Db 11 KLIKDKIELRNISFEINDGECVALIGPNGAGKTTLLDCLLG--DKLVTSGQVSIQGLPVT 68

Qy 114 PANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKV 173

Db 69 SSKLDYTRAYLPQENIIIVQKLKVKELIAFFQRI-----YPNPLSNQEIDQLLQFVKQQK- 122

Qy	174	ADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSK	233
Db	123	-----EQLAEKLSGGQKRLFSFILTLIGRPKIVFLDEPTASMDTSTRQRFWEIVQELKA	176
Qy	234	QGRTIIFSIIHQPRYSIFKLFDSLTLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADF	293
Db	177	QGVTIYSSHYIE-EVEHTADRILLNKGELI-----	207
Qy	294	FLDIINGDSTAVALNREEDFK-----ATEIIEPS-----KQDKPLIE-----	330
Db	208	-----RDTTPLAMRSEEIEKHFILPIAYKEVVEQSNLVENWTLKQDSLQVVTREADAFW	261
Qy	331	-----KLAEIYVN-----SSFYKETK	346
Db	262	ELLAQAGCRMQEIEVNNRSLNLTIFEETQ	290

RESULT 3

US-11-524-363-5117
; Sequence 5117, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 5117
; LENGTH: 252
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-5117

Query Match 6.6%; Score 221.5; DB 3; Length 252;
Best Local Similarity 26.2%; Pred. No. 1.6e-10;

```
Matches    63;  Conservative    56;  Mismatches    68;  Indels    53;  Gaps    8;

Qy          62 EILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPA--NFK 118
   | | :|:  :: |   ||:| :| |||:|:|:|   ||   | | :||   | :
Db          23 EALKDIHFTVEKGDYVAIMGESGSGKSTLLNILAMLDKPS--RGQVYLNGTDTATIKNSQ 80

Qy          119 CNS-----GYVVQDDVVMGTLTVRENLQFSAA LRLATTMTNHEKNERINRVI---QELG 169
   :|       |:| ||  :: ||:|:|:|   : |   ::   | : ::   : ||
Db          81 ASSFRREKLGFVFQDFNLLDTLSVKDN-----ILLPLVLSRRPITEMMKKLVVTAENLG 134

Qy          170 LDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLK 229
   :::: :   ::  :||:|:|:| :|   :||:| ||   |||   ||| :: |:| :
Db          135 INQLQE-----KYPYEISGGQKQ R VAVARAIITEPEILLADEPTGALDSKSSAALLDVFD 189

Qy          230 RMSKQGRTIIFS IHQ-----PRYSIFKLFDSL TLLAS 261
   ::::|:|:|   |   |   :: |:|:|:|
Db          190 EINERGQTILMVTHSTAAASRAKRVLF IKDGILYNQIYRGEKTERQMFQEISDTLTVMAS 249
```

RESULT 4

US-11-801-901A-5117

; Sequence 5117, Application US/11801901A

; Publication No. US20080194505A1

; GENERAL INFORMATION

; APPLICANT: Doucette-Stamm, Lynn

; APPLICANT: Bush, David

; APPLICANT: Zeng, Qiandong

; APPLICANT: Opperman, Timothy

; APPLICANT: Houseweart, Chad Eric

; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus

; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics

; FILE REFERENCE: 3687.1000-060

; CURRENT APPLICATION NUMBER: US/11/801,901A

; CURRENT FILING DATE: 2008-04-17

; PRIOR APPLICATION NUMBER: US 11/524,355

; PRIOR FILING DATE: 2006-09-20

; PRIOR APPLICATION NUMBER: US 11/027,892

; PRIOR FILING DATE: 2004-12-30

; PRIOR APPLICATION NUMBER: US 10/640,833

; PRIOR FILING DATE: 2003-08-14

; PRIOR APPLICATION NUMBER: US 09/583,110

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: US 09/107,433

; PRIOR FILING DATE: 1998-06-30

; PRIOR APPLICATION NUMBER: US 60/085,131

; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553

; PRIOR FILING DATE: 1997-07-02

; NUMBER OF SEQ ID NOS: 5326

; SEQ ID NO 5117

; LENGTH: 252

; TYPE: PRT

; ORGANISM: Streptococcus pneumoniae

US-11-801-901A-5117

```

RESULT 5
US-11-524-363-2753
; Sequence 2753, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 2753
; LENGTH: 233
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae

```

US-11-524-363-2753

Query Match	6.6%;	Score 221;	DB 3;	Length 233;
Best Local Similarity	29.8%;	Pred. No. 1.6e-10;		
Matches	64;	Conservative 44;	Mismatches 87;	Indels 20; Gaps 7;
Qy	46	VKLKSGFLPCRK-PVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLS	103	
		: : : : : : : : : : :		
Db	5	ISLKNIFRSYRNGDQELQVLKNINLEVNEGEFVAIMGPSGSGKSTLMNTIGMLDTPT--S	62	
Qy	104	GDVLIN-----GAPRPANFKCNS-GYVVQDDVVMGTLTVRENLQFSAALRLATTMTNH	155	
		: : : : : : : : : :		
Db	63	GEYYLEGQEVAAGLGEKQLAKVRNQQIGFVFQQFFLLSKLNALQNVE----LPLIYAGVSS	118	
Qy	156	EKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTG	215	
		: : : : : : : : :		
Db	119	SK----RRKLAEEYLDKVELTERSHHLPSELGGQKQRVAIARALVNNPSIILADEPTGA	174	
Qy	216	LDSSTANAVLLLLKRMSKQGRTIIFSIIHQPRYSIF	250	
		: : : : : : : : :		
Db	175	LDTKTGNQIMQLLVDLNKEGKTIIMVTHEPEIAAY	209	

RESULT 6

US-11-801-901A-2753

; Sequence 2753, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5326
; SEQ ID NO 2753

; LENGTH: 233
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-2753

Query Match 6.6%; Score 221; DB 3; Length 233;
Best Local Similarity 29.8%; Pred. No. 1.6e-10;
Matches 64; Conservative 44; Mismatches 87; Indels 20; Gaps 7;

Qy 46 VKLKSGFLPCRK-PVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLS 103
: ||: | | : :| || : | ||: ||: | ||: ||: : |: |
Db 5 ISLKNIFRSYRNGDQELQVLKNINLEVNEGEFVAIMGPSGSGKSTLMNTIGMLDTPT--S 62

Qy 104 GDVLIN-----GAPRPANFKCNS-GYVVQDDVVMGTLTVRENLQFSAALRLATTMTNH 155
|: : | : | : | | : : | : ||: | | :
Db 63 GEYYLEGQEAVAGLG EKQLAKVRNQQIGFVFQQFFLLSKLNALQNVE----LPLIYAGVSS 118

Qy 156 EKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTG 215
| | : | ||| : : : ||: ||: | | : : ||: |||
Db 119 SK---RRKLAEEYLDKVELTERSHHLPSELGGQKQ RVAIARALVNNPSIILADEPTGA 174

Qy 216 LDSSTANAVLLLLKRMSKQGRTIIFS IHQPRYSIF 250
||: | | : : || : ||: ||: || | : | : :
Db 175 LDTKTGNQIMQLLVDLNKEGKTIIMVTHEPEIAAY 209

RESULT 7
US-11-524-363-3524
; Sequence 3524, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324

; SEQ ID NO 3524
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-3524

Query Match 6.2%; Score 206.5; DB 3; Length 378;
Best Local Similarity 22.2%; Pred. No. 3.9e-09;
Matches 76; Conservative 79; Mismatches 141; Indels 47; Gaps 13;

Qy 62 EILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGA---PRPANF 117
::| :|| :: | :|| :| |||::|::| | : :||::| | |
Db 21 KVLKDINFELEEGKFYTLGASGSGKSTILNIIAGLLDAT--TGDIMLDGVRINDIPTN- 77

Qy 118 KCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSK 177
| : | | : : | ||: | || : : :| | :|
Db 78 KRDVHTVFQSYALFPHMNVFENVAFLRLRKIDKKEIEQRVAEVLKMOVQLEGYEK----- 132

Qy 178 VGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQ-GR 236
: || :|||:|:| :| :| | :: |||| : || : | : : :|
Db 133 ---RSIRKLSGGQRQ RVAIARAIINQPRVLLDEPLSALDLKLRTDMQYELRELQQRLGI 189

Qy 237 TIIFSIHQPRYSIFKLFDSLTL LASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLD 296
| :| | : : | : : | : : :| : | : | :|
Db 190 TFVFTVTHDQEEAL-AMSDWIFVMNDGEIV-----QSGTPVDIYDEPINHFVA 235

Qy 297 IINGDSTAVALNREEDF-----KATEIIEPS-KQDKPLIEKLAEIYVNSSFYKETKAEL 349
|:| : : ||: | | :: | ::| : | : : :| |
Db 236 TFIGESNILPGSMIEDYLVEFNGKRFEAVDGGMKPNEPV----EVVIRPEDLRITLPEE 290

Qy 350 HQLSGGEKKKKITVFKEISYTTSFCHQL--RWVSKRSFKNLLG 390
:| : | :|: :| :| | : :| :|
Db 291 GKL--QVKVDTQLFRGVHYEIIAYDELGNEWMIHSTRKAIVG 330

RESULT 8
US-11-801-901A-3524
; Sequence 3524, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT:Bush, David
; APPLICANT:Zeng, Qiandong
; APPLICANT:Opperman, Timothy
; APPLICANT:Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION:Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30

Query Match 6.2%; Score 206.5; DB 3; Length 378;
Best Local Similarity 22.2%; Pred. No. 3.9e-09;
Matches 76; Conservative 79; Mismatches 141; Indels 47; Gaps 13;

Qy	62	EILSNINGIMKPG-LNAILGPTGGGKSSLLDVLAAARKDPSSGLSGDVLINGA---PRPANF	117
		: : :: : : :: ::: : : :::~ ~	
Db	21	KVLKDINFELEEGKFYTL LGASGS GKSTILNIIAGLLDAT--TGDIMLDGVRINDIPTN-	77
Qy	118	KCNSGYVVQDDVVMGTLTVREN LQFS AALRLATTMTNHEKNERINRVIQELGLDKVADSK	177
		: : : : : : :~ :	
Db	78	KRDVHTVFQSYALFPHMNVFENVA FPLRLRKIDKKEIEQRVAEVLKMVQLEGYEK-----	132
Qy	178	VGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTG LDSSTANAVLLLLKRMSKQ-GR	236
		: : : : : : :: : : : : :~	
Db	133	---RSIRKL SGGQRQ RVAIARAI INQPRVLL DEPLSALDLKLRTDMQYELRELQQRLGI	189
Qy	237	TIIFS I HQPRYSIFKLFDSL TLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLD	296
		: :: : : :: :: : : : : :	
Db	190	TFV FVT HDQEEAL-AMSDWIFVMNDGEIV-----QSGTPVDIYDEP INHFVA	235
Qy	297	IINGDSTAVALNREEDF-----KATEI IEPS-KQDKPLIEKLAEIYVNSSFYKETKAEL	349
		: : : : :: :: : : : :	
Db	236	TFIGESNILPGSMIEDYLVEFNGKRFEAVDGGMKPNEPV----EVVIRPEDLRITLPEE	290
Qy	350	HQLSGGEKKKKKITVFKEISYTTSFCHQL--RWVSKRSFKNLLG	390
		: : : : : : : : ::	
Db	291	GKL---QVKVD TQ LFRGVHYEI IAYDELGNEWMIHSTRKAIVG	330

```
; Sequence 3396, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
```

; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 3396
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-3396

Query Match 6.1%; Score 204.5; DB 3; Length 209;
Best Local Similarity 31.5%; Pred. No. 2.5e-09;
Matches 62; Conservative 42; Mismatches 72; Indels 21; Gaps 7;

Qy 60 EKEILSNIN-GIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGL----SGDVLINGAPRP 114
:|:|||| : | : : ||:|:||||:|:| :|| || : || |
Db 13 DKQILSNFSLSIPEKQILAIVGPSGGGKTTLLRMLA-----GLETIDSGQIFYNGQPLE 66

Qy 115 AN--FKCN-SGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLD 171
: | | |:| || : |:| ||| | : | | :: : ::|||
Db 67 LDELQKRNLG FVFQDFQLFPHLSVLENLTLSPVKTMG--MKQEEAEKKASGLLEQLGLG 124

Qy 172 KVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRM 231
|:: : :||:|:| :: :| | |: |||:| | | |: :
Db 125 GHAEA-----YPFSLSGGQKQ RVALARAMMIDPEIIGYDEPTSALDPELRLEVEKLILQN 179

Qy 232 SKQGRTIIFS IHQPRYS 248
: | | | | :::
Db 180 RELGMTQIVVTHDLQFA 196

RESULT 10
US-11-801-901A-3396
; Sequence 3396, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David

; APPLICANT:Zeng, Qiandong
; APPLICANT:Opperman, Timothy
; APPLICANT:Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION:Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5326
; SEQ ID NO 3396
; LENGTH: 209
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-3396

Query Match 6.1%; Score 204.5; DB 3; Length 209;
Best Local Similarity 31.5%; Pred. No. 2.5e-09;
Matches 62; Conservative 42; Mismatches 72; Indels 21; Gaps 7;

Qy 60 EKEILSNIN-GIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGL----SGDVLINGAPRP 114
:|:|||| : | : : ||:|||||||:| :|| || || : || |
Db 13 DKQILSNFSLSIPEKQILAIVGPSGGKTTLLRMLA-----GLETIDSGQIFYNGQPLE 66

Qy 115 AN--FKCN-SGYVVQDDVVMGTLTVRENLFQSAALRLATTMTNHEKNERINRVIQELGLD 171
: | | |:| || : |:| ||| | : | | :: : ::|||
Db 67 LDELQKRNLGTFVFDQFLFPHLSVLENLTLSPVKTMG--MKQEEAEKKASGLLEQLGLG 124

Qy 172 KVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSSTANAVLLLLKRM 231
|:: : :|||::| :: :: || |: |||: || | |: :
Db 125 GHAEA-----YPFSLSGGQKQRFVALARAMMIDPEIIGYDEPTSDPELRLEVEKLILQN 179

Qy 232 SKQGRTIIFSIIHQPRYS 248
: | | | | :::
Db 180 RELGMTQIVVTHDLQFA 196

RESULT 11
US-11-524-363-2985
; Sequence 2985, Application US/11524363

; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 2985
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-2985

Query Match		6.1%;	Score 203.5;	DB 3;	Length 242;
Best Local Similarity		24.9%;	Pred. No. 3.6e-09;		
Matches	70;	Conservative	54;	Mismatches	98;
Indels	59;	Gaps	12;		
Qy	36	VLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLA	94		
		:: : : :: :: :: : : ::: ::			
Db	1	MIEYKNVALRY-----TEKDVLRDVNLQIEDGEFMVLVGPSGSGKTTMLKMIN	48		
Qy	95	ARKDPSGLSGDVLINGAP----RPANFKCNSGYVVQDDVVMGTLTVRENLFQSAALRLAT	150		
		: : : : : : : : : :			
Db	49	RLLEPT--DGNIYMDGKRIKDYDERELRLSTGYVLQAIALFPNLTVAEN-----IALIP	100		
Qy	151	TMTNHEKNERINRVIQELGLDKVA--DSKVGTQFIRGVSGGERKRTSIGMELITDPSILF	208		
		: : : : : : : :			
Db	101	EMKGWSK-EEITKKTEEL-LAKVGLPVAEYGHRLPSELSGGEQQRVGIVRAMIGQPKILL	158		
Qy	209	LDEPTTGLDSSTANAVLLLLKRMSKQ-GRTIIFSIIHQPRYSIFKLFDSLTLASGRLMFH	267		
		: : : : : : : : : : : : :			
Db	159	MDEPFSALDAISRKQLQVLTKE LHKEFGMTTIFVTHDTHDEAL-KLADRIAVLQDGEI---	214		
Qy	268	GPAQEALGYFESAGYHCEAYNNP-----ADFFLDIING	300		
		: :			
Db	215	-----RQVSNPETILKAPATDFVADLFGG	238		

RESULT 12

US-11-801-901A-2985
; Sequence 2985, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5326
; SEQ ID NO 2985
; LENGTH: 242
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-2985

Query Match		6.1%;	Score 203.5;	DB 3;	Length 242;
Best Local Similarity		24.9%;	Pred. No. 3.6e-09;		
Matches	70;	Conservative	54;	Mismatches	98; Indels 59; Gaps 12;
Qy	36	VLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLA	94		
		:: : : :: :: :: ::: ::: ::			
Db	1	MIEYKNVALRY-----TEKDVLRDVNLQIEDGEFMVLVGPSSGSKTTMLKMIN	48		
Qy	95	ARKDPSGLSGDVLINGAP---RPNFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLAT	150		
		: : : : : : : : :			
Db	49	RLLEPT--DGNIYMDGKRIKDYDERELRLSTGYVLQAIALFPNLTVAEN-----IALIP	100		
Qy	151	TMTNHEKNERINRVIQELGLDKVA--DSKVGTQFIRGVSGGERKRTSIGMELITDPSILF	208		
		: : : : : : :: :			
Db	101	EMKGWSK-EEITKKTEEL-LAKVGLPVAEYGHRLPSELSGGEQQRVGIVRAMIGQPKILL	158		

Qy 209 LDEPTTGLDSSTANAVLLLLLKRMKQ-GRTIIFSIHQPRYSIFKLFDSLTLASGRLMFH 267
: ||| : ||: : : : | | : | : | | | : : | | :
Db 159 MDEPFSALDAISRKQLQVLTKEHKEFGMTTIFVTHDTDEAL-KLADRIAVLQDGEI--- 214

Qy 268 GPAQEALGYFESAGYHCEAYNNP-----ADFFLDIING 300
: || | | | : |
Db 215 -----RQVSNPETILKAPATDFVADLFGG 238

RESULT 13

US-11-524-363-3027
; Sequence 3027, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 3027
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-3027

Query Match 6.1%; Score 203; DB 3; Length 336;
Best Local Similarity 26.4%; Pred. No. 6.1e-09;
Matches 94; Conservative 63; Mismatches 139; Indels 60; Gaps 20;

Qy 64 LSNIN-GIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAP----RPFNFK 118
: | : | : | | : | | | | : : | | |
Db 17 IDNLNLDIHEGEFFTFGLPSGCGKSTTLRALVGFGLDPS--SGSIEVNGTDVTHLEPE--K 72

Qy 119 CNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV 178
| | | : | : | : | : : | : : | : : | : :
Db 73 RGIGIVFQSYALFPTMTVFDNIAFGLKVKKVAPDVIKAK---VSAVAAKI---KISDQQL 126

Qy 179 GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQ-GRT 237
: : :|||:::| :: |: :| || |||| : ||: : |||: |: | |
Db 127 -QRNVSELSGGQQQRVALARALVLEPKILCLDEPLSNLDAKLRVDLRKELKRLQKELGIT 185

Qy 238 IIFSIIHQPRYSIFKLFDSLTLASGRL-MFHGPAQEALGYFESAGYHCEAYNNP-----A 291
:: | ::||| | |: |: : || | | | |:|
Db 186 TLYVTHDQE-----EALTTL--SDRIAVFNN-----GYIEQVGTPVEIYHNSQTEFVC 230

Qy 292 DFFLDI-INGDSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELH 350
|| || : | | | | | : |: :||: | :||: :
Db 231 DFIGDINVLTDENV----HEVLLKNTSVFLEDKKGYIRLEKV-----RFNRETEQDF- 278

Qy 351 QLSGGEKKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLG-NPQASIAQIIVTVVL 405
| | |: :: :: | ||: |: : ||:| : :| |
Db 279 ILKG-----TII-DVEFSGVTIHYTIKVSESQILNVTSIDSQAAIRSVGESVEL 326

RESULT 14

US-11-801-901A-3027
; Sequence 3027, Application US/11801901A
; Publication No. US20080194505A1
; GENERAL INFORMATION
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT:Bush, David
; APPLICANT:Zeng, Qiandong
; APPLICANT:Opperman, Timothy
; APPLICANT:Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION:Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-060
; CURRENT APPLICATION NUMBER: US/11/801,901A
; CURRENT FILING DATE: 2008-04-17
; PRIOR APPLICATION NUMBER: US 11/524,355
; PRIOR FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12
; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5326
; SEQ ID NO 3027
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-801-901A-3027

Query Match 6.1%; Score 203; DB 3; Length 336;
Best Local Similarity 26.4%; Pred. No. 6.1e-09;
Matches 94; Conservative 63; Mismatches 139; Indels 60; Gaps 20;

Qy	64	LSNIN-GIMKPGLNAILGPTGGGKSSLLDVLAAARKDPSGLSGDVLINGAP---- <td>118</td>	118
		: : : : : : :	
Db	17	IDNLNLDIHEGEFFTFGLPSGCGKSTTLRALVGFLDPS--SGSIEVNGTDVTHLEPE--K	72
Qy	119	CNSGYVVQDDVVMGTLTVRENLFQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKV	178
		: : : : : : : : : : : :	
Db	73	RGIGIVFQSYALFPTMTVFDNIAFGLKVKKVAPDVIKAK---VSAVAAKI---KISDQQL	126
Qy	179	GTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQ-GRT	237
		: : : :: : : : : : : : : :	
Db	127	-QRNVSELSGGQQQRVALARALVLEPKILCLDEPLSNLDAKLRVDLRKELKRLQKELGIT	185
Qy	238	IIFSIIHQPRYSIFKLFDSLTLASGRL-MFHGPAQEALGYFESAGYHCEAYNNP-----A	291
		: : : : : : : : :	
Db	186	TLYVTHDQE-----EALTL--SDRIAVFNN-----GYIEQVGTPVEIYHNSQTEFVC	230
Qy	292	DFFLDI-INGDSTAVALNREEDFKATEIIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELH	350
		: : : : : : : :	
Db	231	DFIGDINVLTDENV----HEVLLKNTSVFLEDKKGYYIRLEKV-----RFNRETEQDF-	278
Qy	351	QLSGGEKKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLG-NPQASIAQIIIVTVVL	405
		: : : : : : : : : :	
Db	279	ILKG-----TII-DVEFSGVTHYTIKVSSESQILNVTSIDSQAAIRSVGESVEL	326

RESULT 15

US-11-524-363-2846

; Sequence 2846, Application US/11524363
; Publication No. US20080194004A1
; GENERAL INFORMATION:
; APPLICANT: Doucette-Stamm, Lynn
; APPLICANT: Bush, David
; APPLICANT: Zeng, Qiandong
; APPLICANT: Opperman, Timothy
; APPLICANT: Houseweart, Chad Eric
; TITLE OF INVENTION: Nucleic Acid and Amino Acid Sequences Relating to Streptococcus
; TITLE OF INVENTION: Pneumoniae for Diagnostics and Therapeutics
; FILE REFERENCE: 3687.1000-032
; CURRENT APPLICATION NUMBER: US/11/524,363
; CURRENT FILING DATE: 2006-09-20
; PRIOR APPLICATION NUMBER: US 11/027,892
; PRIOR FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US 10/640,833
; PRIOR FILING DATE: 2003-08-14
; PRIOR APPLICATION NUMBER: US 09/583,110
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/107,433
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/085,131
; PRIOR FILING DATE: 1998-05-12

; PRIOR APPLICATION NUMBER: US 60/051,553
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 5324
; SEQ ID NO 2846
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Streptococcus pneumoniae
US-11-524-363-2846

Query Match 6.0%; Score 201.5; DB 3; Length 215;
Best Local Similarity 32.4%; Pred. No. 4.3e-09;
Matches 70; Conservative 33; Mismatches 76; Indels 37; Gaps 11;

Qy	36	VLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPG-LNAILGPTGGGKSSLLDVLA	94
		::: : : : : ::	
Db	4	IITLKNI--ELKLKK---TC-----VFQNLNFSCKQGEIIGITGANGSGKSVLFKLIA	51
Qy	95	ARKDPSGLSGDVLING---APR---PANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRL	148
		: :::: : : : : ::	
Db	52	GLYSPS--YGEVLINGENIVPERKIPANL----GALIEEPGFINYYSGFKNLQYLASIRG	105
Qy	149	ATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILF	208
		: :: : : : :: :	
Db	106	VV-----GNQEINDTLKIVGLYEQKDQKVKT-----YSLGMRKKLGIAQAIMENPSILL	154
Qy	209	LDEPTTGLD-SSTANAVLLLLKRMSKQGRTIIFSIIH	243
		:: : :	
Db	155	LDEPMNALDKSSVENMRTLFRKLSSEKGTILIASH	190

Search completed: September 18, 2008, 22:15:28
Job time : 14 secs

